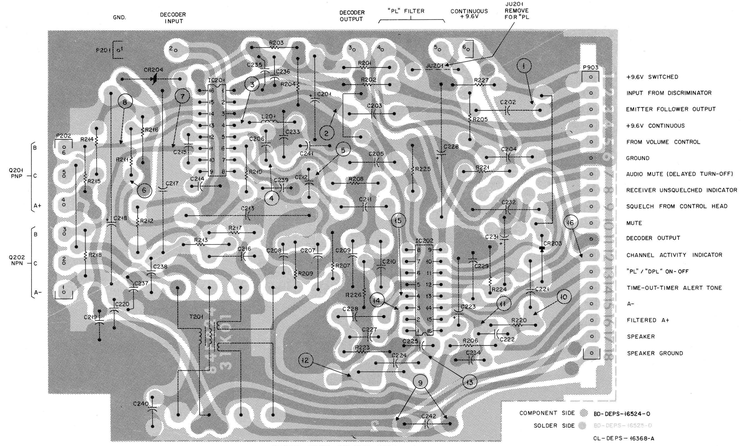


SHOWN FROM SOLDER SIDE

RECEIVER AUDIO & SQUELCH BOARD

201. +5.6 VOLTS WHEN THRESHOLD SIGNAL JUST OPENS SQUELCH (I.E., APPROXIMATELY 6 dB QUIETING SIGNAL WITH SQUELCH CONTROL AT THRESHOLD).
202. WHERE MORE THAN ONE VOLTAGE READING APPEARS:
USQ = RECEIVER UNSQUELCHED
FSQ = RECEIVER FULLY SQUELCHED

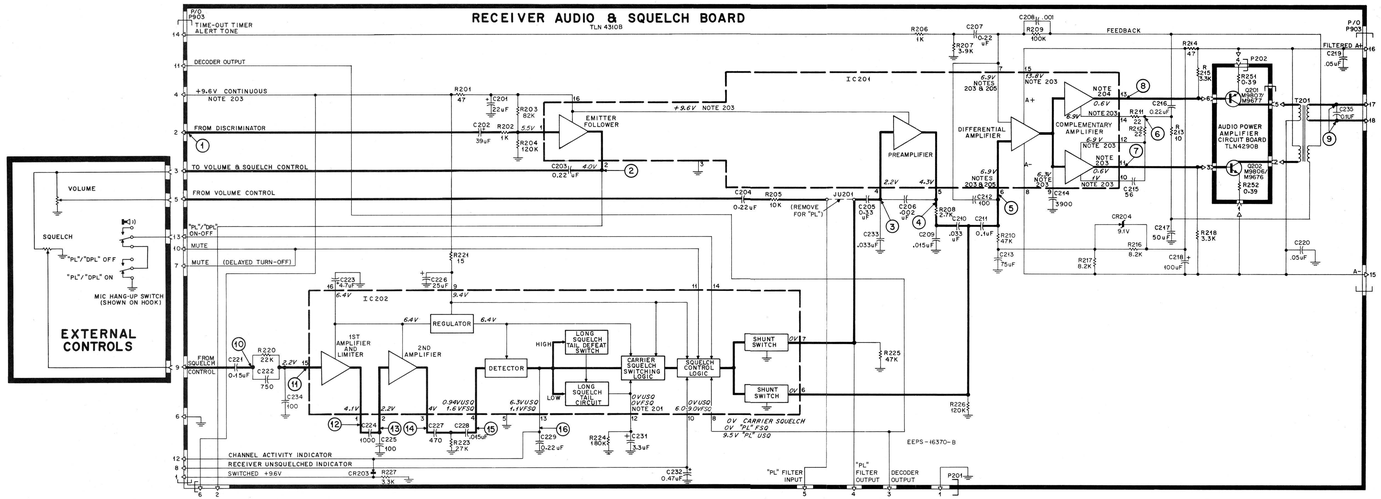
203. VOLTAGE MEASURED WITH RESPECT TO A-.
204. VOLTAGE MEASURED WITH RESPECT TO A+.
205. VOLTAGES AT IC201-6 AND -7 MUST BE THE SAME VALUE.
206. UNLESS OTHERWISE STATED: CAPACITOR VALUES ARE IN PICOFARADS. RESISTOR VALUES ARE IN OHMS.
207. UNLESS OTHERWISE STATED, VOLTAGE MEASUREMENTS ARE FOR DC VOLTAGES ±10% MEASURED WITH AN 11 MEGOHM INPUT RESISTANCE VOLTMETER WITH RESPECT TO CHASSIS GROUND.

EPS-6229-C

DC VOLTAGE TABLE FOR IC'S ON AUDIO & SQUELCH BOARD

IC201				IC202			
PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE
1	5.5 V	9	6.3 V NOTE 203	1	4.1 V	9	9.4 V
2	4.0 V	10	1.0 V NOTE 203	2	2.2 V	10	0 V USQ 6.0 - 9.0 V FSQ
3	0 V	11	0.6 V NOTE 203	3	4.0 V	11	---
4	2.2 V	12	6.9 V NOTE 203	4	0.94 V USQ 1.6 V FSQ	12	0 V USQ 0 V FSQ NOTE 201
5	4.3 V	13	0.6 V NOTE 204	5	0 V	13	6.3 V USQ 1.1 V FSQ
6	6.9 V NOTES 203 & 205	14	6.9 V NOTE 203	6	0 V	14	---
7	6.9 V NOTES 203 & 205	15	13.8 V NOTE 203	7	0 V	15	2.2 V
8	A-	16	9.6 V NOTE 203	8	0 V CARRIER SQ 9.5 V "PL" USQ 0 V "PL" FSQ	16	6.4 V

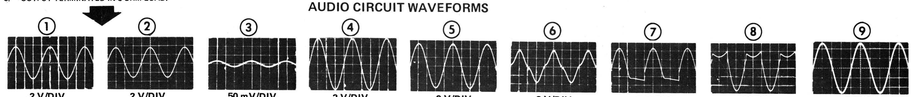
EPS-16511-O



ALL AUDIO CIRCUIT OSCILLOSCOPE WAVEFORMS TAKEN UNDER FOLLOWING CONDITIONS:

1. VERTICAL SENSITIVITY SHOWN UNDER EACH WAVEFORM.
2. HORIZONTAL DEFLECTION = .25 msec/DIV.
3. SQUELCH CONTROL FULLY COUNTERCLOCKWISE (OFF). 1000 uV RF SIGNAL INPUT MODULATED WITH 1000 Hz TONE WITH ±3.3 kHz DEVIATION
4. VOLUME CONTROL SET FOR 9.0 V rms AT LOAD.
5. OUTPUT TERMINATED IN 8 OHM LOAD.

AUDIO CIRCUIT WAVEFORMS



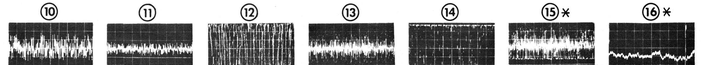
EPS-6163-A

ALL SQUELCH CIRCUIT OSCILLOSCOPE WAVEFORMS TAKEN UNDER FOLLOWING CONDITIONS:

1. VERTICAL SENSITIVITY = 0.5 V/DIV.
2. HORIZONTAL DEFLECTION = 2 msec/DIV.
3. SQUELCH CONTROL FULLY CLOCKWISE (ON). NO EXTERNAL SIGNAL APPLIED.
*4. WAVEFORMS (15) AND (16) ARE DC COUPLED WITH ZERO AT BOTTOM, OTHERS AC COUPLED.

EPS-6534-O

SQUELCH CIRCUIT WAVEFORMS



AUDIO SQUELCH BOARD

PARTS LIST SHOWN ON BACK OF THIS DIAGRAM

TLN4310B-1 Audio & Squelch Board
Schematic Diagram & Circuit Board Detail
Motorola No. PEPS-16369-B
(Sheet 1 of 2)
10/14/76-UP